

**NAME**

`ldns_key_new`, `ldns_key_new_frm_algorithm`, `ldns_key_new_frm_fp`, `ldns_key_new_frm_fp_l`,  
`ldns_key_new_frm_fp_rsa`, `ldns_key_new_frm_fp_rsa_l`, `ldns_key_new_frm_fp_dsa`,  
`ldns_key_new_frm_fp_dsa_l` - create a `ldns_key`

**SYNOPSIS**

```
#include <stdint.h>
#include <stdbool.h>

#include <ldns/ldns.h>

ldns_key* ldns_key_new(void);

ldns_key* ldns_key_new_frm_algorithm(ldns_signing_algorithm a, uint16_t size);

ldns_status ldns_key_new_frm_fp(ldns_key **k, FILE *fp);

ldns_status ldns_key_new_frm_fp_l(ldns_key **k, FILE *fp, int *line_nr);

RSA* ldns_key_new_frm_fp_rsa(FILE *fp);

RSA* ldns_key_new_frm_fp_rsa_l(FILE *fp, int *line_nr);

DSA* ldns_key_new_frm_fp_dsa(FILE *fp);

DSA* ldns_key_new_frm_fp_dsa_l(FILE *fp, int *line_nr);
```

**DESCRIPTION**

*ldns\_key\_new()* Creates a new empty key structure  
Returns a new `ldns_key *` structure

*ldns\_key\_new\_frm\_algorithm()* Creates a new key based on the algorithm

**a:** The algorithm to use

**size:** the number of bytes for the keysize

Returns a new `ldns_key` structure with the key

*ldns\_key\_new\_frm\_fp()* Creates a new priv key based on the contents of the file pointed by `fp`.

The file should be in Private-key-format v1.x.

**k**: the new `ldns_key` structure

**fp**: the file pointer to use

Returns an error or `LDNS_STATUS_OK`

*ldns\_key\_new\_frm\_fp\_l()* Creates a new private key based on the contents of the file pointed by fp

The file should be in Private-key-format v1.x.

**k**: the new `ldns_key` structure

**fp**: the file pointer to use

**line\_nr**: pointer to an integer containing the current line number (for debugging purposes)

Returns an error or `LDNS_STATUS_OK`

*ldns\_key\_new\_frm\_fp\_rsa()* `frm_fp` helper function. This function parses the remainder of the (RSA) priv. key file generated from bind9

**fp**: the file to parse

Returns NULL on failure otherwise a RSA structure

*ldns\_key\_new\_frm\_fp\_rsa\_l()* `frm_fp` helper function. This function parses the remainder of the (RSA) priv. key file generated from bind9

**fp**: the file to parse

**line\_nr**: pointer to an integer containing the current line number (for debugging purposes)

Returns NULL on failure otherwise a RSA structure

*ldns\_key\_new\_frm\_fp\_dsa()* `frm_fp` helper function. This function parses the remainder of the (DSA) priv. key file

**fp**: the file to parse

Returns NULL on failure otherwise a RSA structure

*ldns\_key\_new\_frm\_fp\_dsa\_l()* `frm_fp` helper function. This function parses the remainder of the (DSA) priv. key file

**fp**: the file to parse

**line\_nr**: pointer to an integer containing the current line number (for debugging purposes)

Returns NULL on failure otherwise a RSA structure

## AUTHOR

The ldns team at NLnet Labs.

**REPORTING BUGS**

Please report bugs to [ldns-team@nlnetlabs.nl](mailto:ldns-team@nlnetlabs.nl) or in our bugzilla at <http://www.nlnetlabs.nl/bugs/index.html>

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**SEE ALSO**

*ldns\_key*. And **perldoc Net::DNS**, **RFC1034**, **RFC1035**, **RFC4033**, **RFC4034** and **RFC4035**.

**REMARKS**

This manpage was automatically generated from the ldns source code.